

FIG. 1

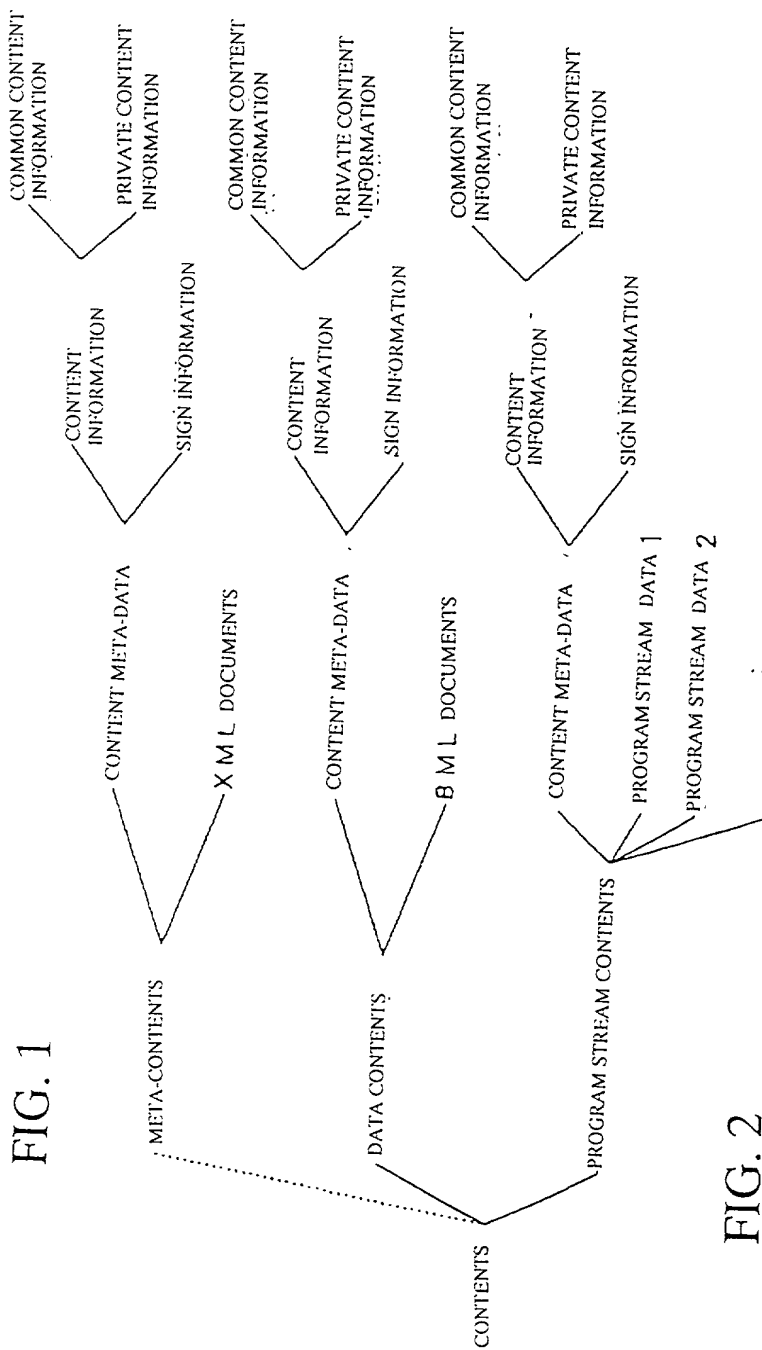


FIG. 2

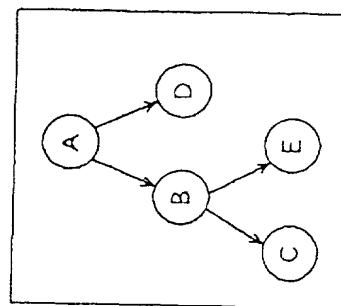


FIG. 3

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<!ELEMENT ServiceCompInfo public_key, (storage_id_info)*, (element_service)+,
    (storage_info)*>
<!ELEMENT public_key EMPTY>
<!ELEMENT element_service (content_group)+, (storage_id_info)*>
<!ELEMENT content_group (storage_id_info)*>
<!ELEMENT storage_id_info EMPTY>
<!ELEMENT storage_info (ird_level_list)*>
<!ELEMENT ird_level_list (storage_id_list)*>
<!-- ATTLLIST ServiceCompInfo
info_major_version      PCDATA #REQUIRED
info_minor_version      PCDATA #REQUIRED
information_provider_id   ID_NUM #REQUIRED
information_provider_name CDATA #REQUIRED
information_provider_char CDATA #REQUIRED
work_area_size           PCDATA #REQUIRED
first_bml                ID_NUM #REQUIRED
-->
<!-- ATTLLIST public_key
version      PCDATA #REQUIRED
key          PCDATA #REQUIRED
limit        DATE  #REQUIRED
-->
<!-- ATTLLIST element_service
element_service_id   ID_NUM #REQUIRED
element_service_name CDATA  #IMPLIED
element_service_char CDATA  #IMPLIED
first_bml            ID_NUM #IMPLIED
schedule_info        (ON|OFF) OFF
-->
<!-- ATTLLIST content_group
content_group_id      ID_NUM #REQUIRED
content_group_name     CDATA  #REQUIRED
content_group_char     CDATA  #REQUIRED
first_bml             ID_NUM #IMPLIED
-->
<!-- ATTLLIST storage_id_info
storage_id            ID_NUM #REQUIRED
-->
<!-- ATTLLIST ird_level_list
ird_level             PCDATA #REQUIRED
-->
<!-- ATTLLIST storage_id_list
storage_id            ID_NUM #REQUIRED
storage_policy         (0|1|2|3|4) 0
exclusive_storage_av   PCDATA #REQUIRED
exclusive_storage_data PCDATA #REQUIRED
-->

```

FIG. 4

```

<!ELEMENT ScheduleInfo (content_info)*, (next_schedule)*>
<!ELEMENT content_info (schedule)+, (filtering_pattern)+>
<!ELEMENT schedule_list (schedule)+>
<!ELEMENT next_schedule (schedule)+>
<!ATTLIST ScheduleInfo
  info_major_version      PCDATA #REQUIRED
  info_minor_version      PCDATA #REQUIRED
  information_provider_id  ID_NUM  #REQUIRED
  element_service_id      ID_NUM  #REQUIRED
  >
<!ATTLIST content_info
  element_content_id      ID_NUM  #REQUIRED
  content_major_version   PCDATA #REQUIRED
  content_minor_version   PCDATA #REQUIRED
  data_type               (STREAM|FILE) #IMPLIED
  content_size            CDATA   #IMPLIED
  >
<!ATTLIST schedule_list
  transport_stream_id     ID_NUM  #REQUIRED
  original_network_id     ID_NUM  #REQUIRED
  service_id              ID_NUM  #REQUIRED
  >
<!ATTLIST schedule
  start_time              DATE    #REQUIRED
  duration                PCDATA #REQUIRED
  >
<!ATTLIST filtering_pattern
  layer                   (1|2)   #REQUIRED
  def_version             PCDATA #REQUIRED
  FieldID                 ID_NUM  #REQUIRED
  info_version            PCDATA #REQUIRED
  pattern                 CDATA   #REQUIRED
  >
<!ATTLIST next_schedule
  transport_stream_id     ID_NUM  #REQUIRED
  original_network_id     ID_NUM  #REQUIRED
  service_id              ID_NUM  #REQUIRED
  >

```

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FIG. 5

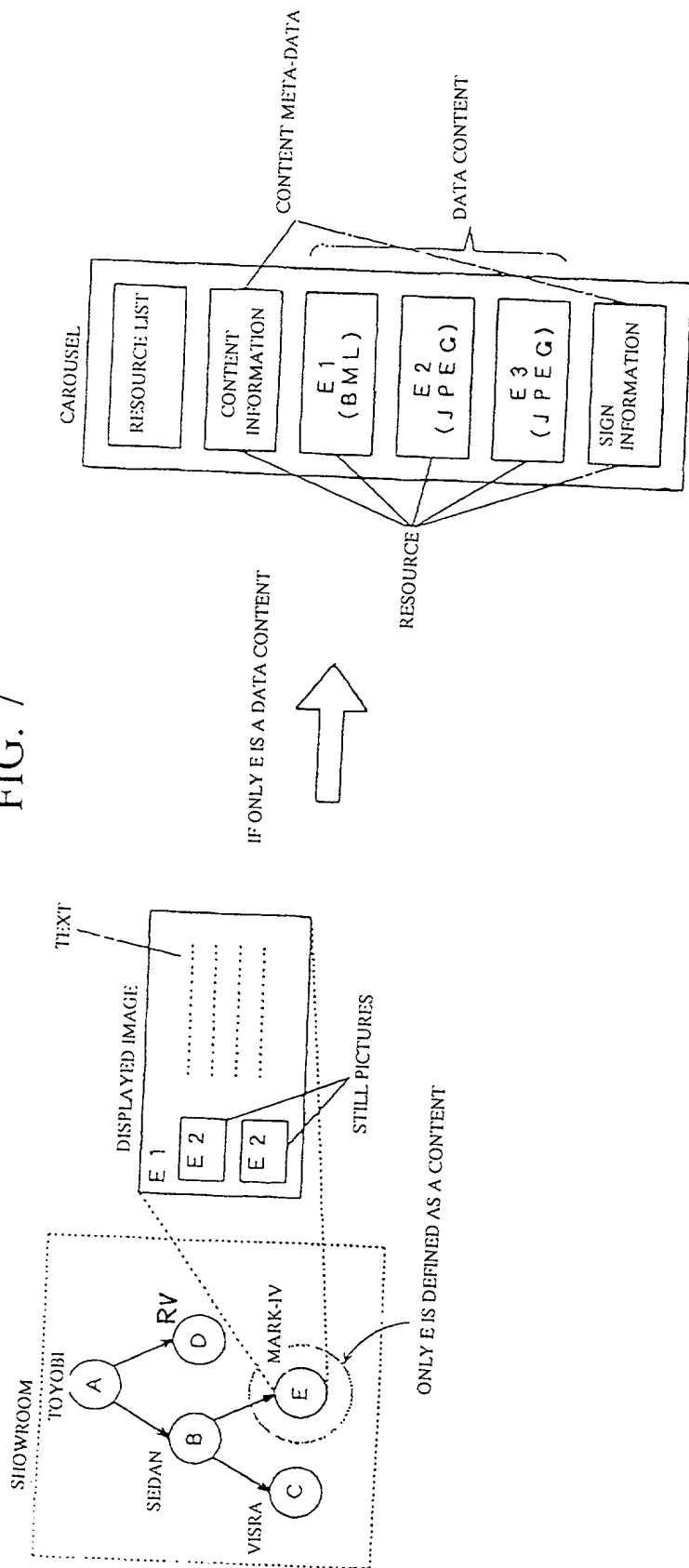
COMMON CONTENT INFORMATION

```

<!ELEMENT CommonInfo (comp_info+)>
<!ELEMENT comp_info (comp_content+)>
<!ELEMENT comp_content EMPTY>
<!ATTLIST CommonInfo
  information_provider_id ID_NUM #REQUIRED
  service_type           (0|1|2|3|4) #REQUIRED
  element_service_id     ID_NUM #REQUIRED
  content_group_id       ID_NUM #REQUIRED
  storage_id             ID_NUM #IMPLIED
  major_version          PCDATA #REQUIRED
  minor_version          PCDATA #REQUIRED
  activation_time        DATE #IMPLIED
  expire_time            DATE #REQUIRED
  expire_policy          (0|1) 0
>
<!ATTLIST comp_info
  ird_level              PCDATA #REQUIRED
  limit                 DATE #REQUIRED
>
<!ATTLIST comp_content
  element_content_id     ID_NUM #REQUIRED
  necessary              (ON|OFF) OFF
>

```


FIG. 7



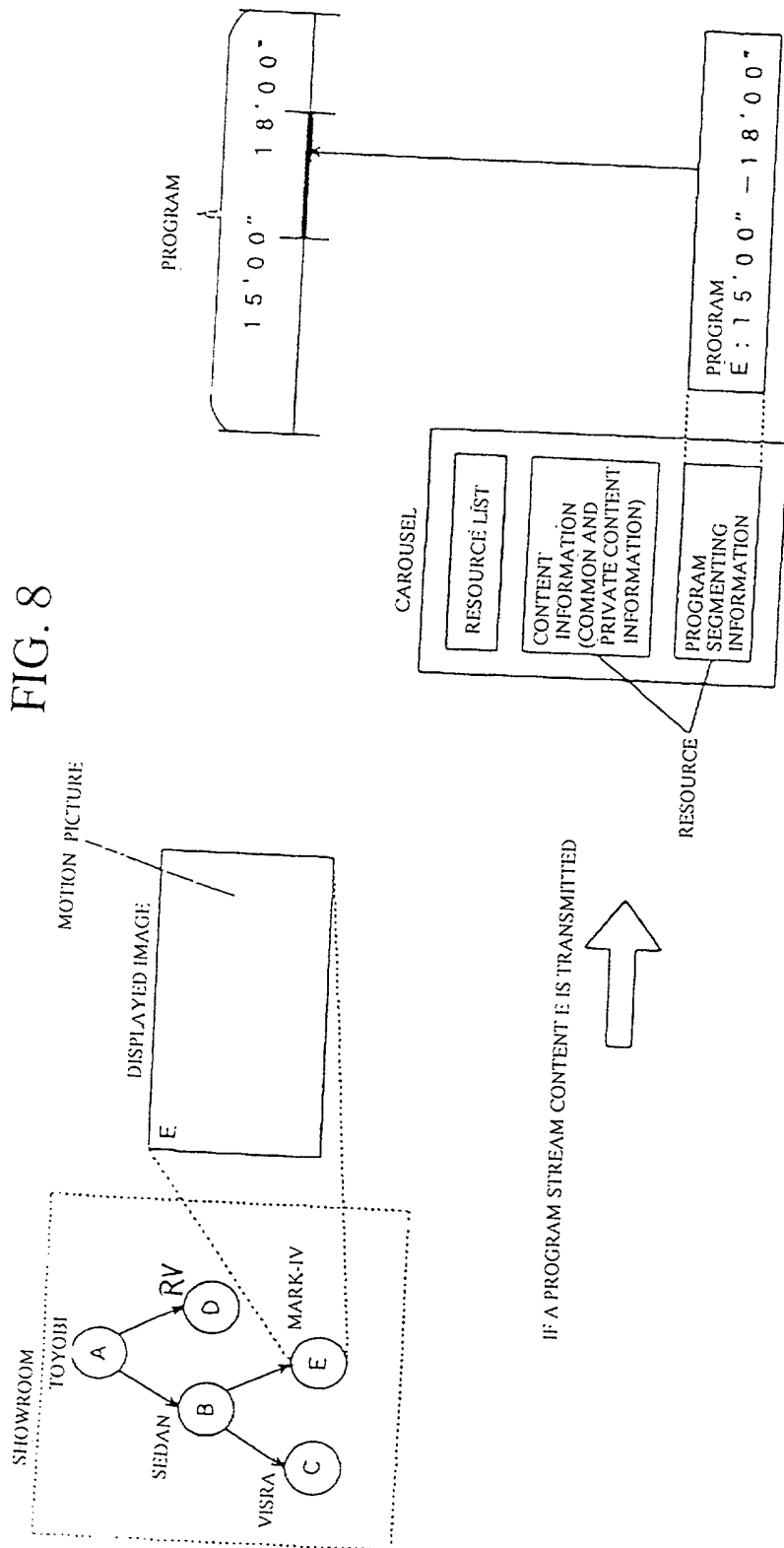
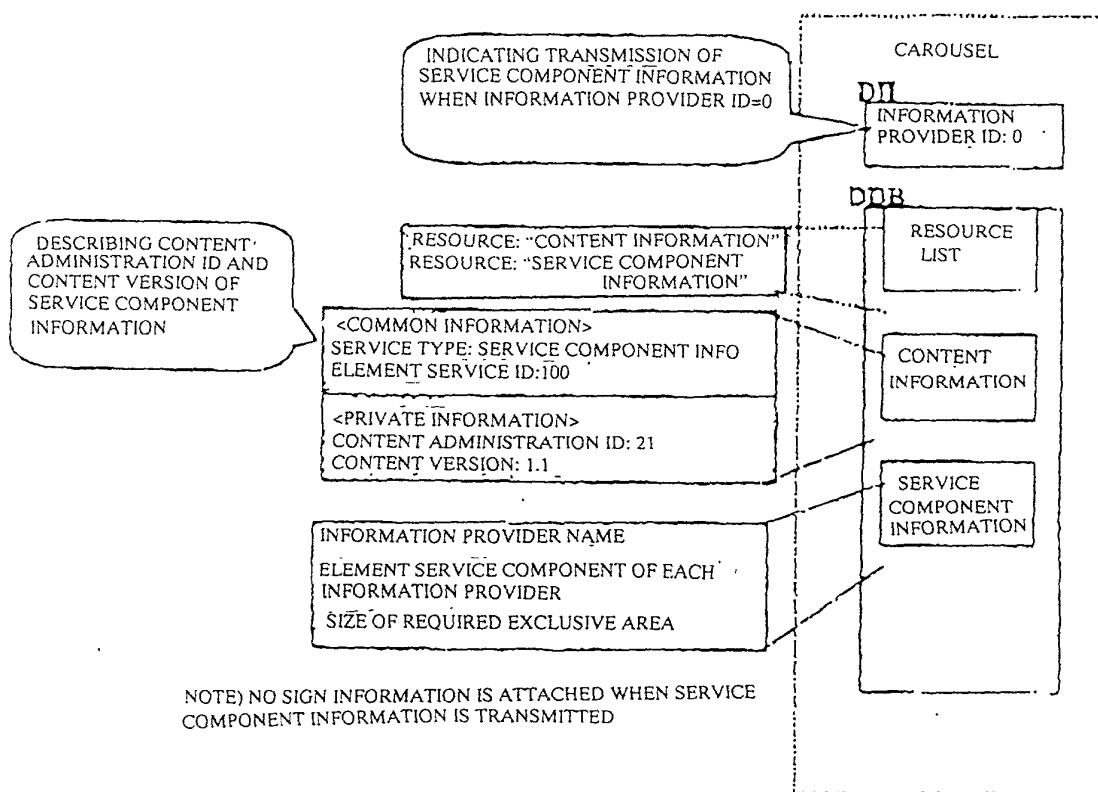


FIG. 9



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FIG. 10

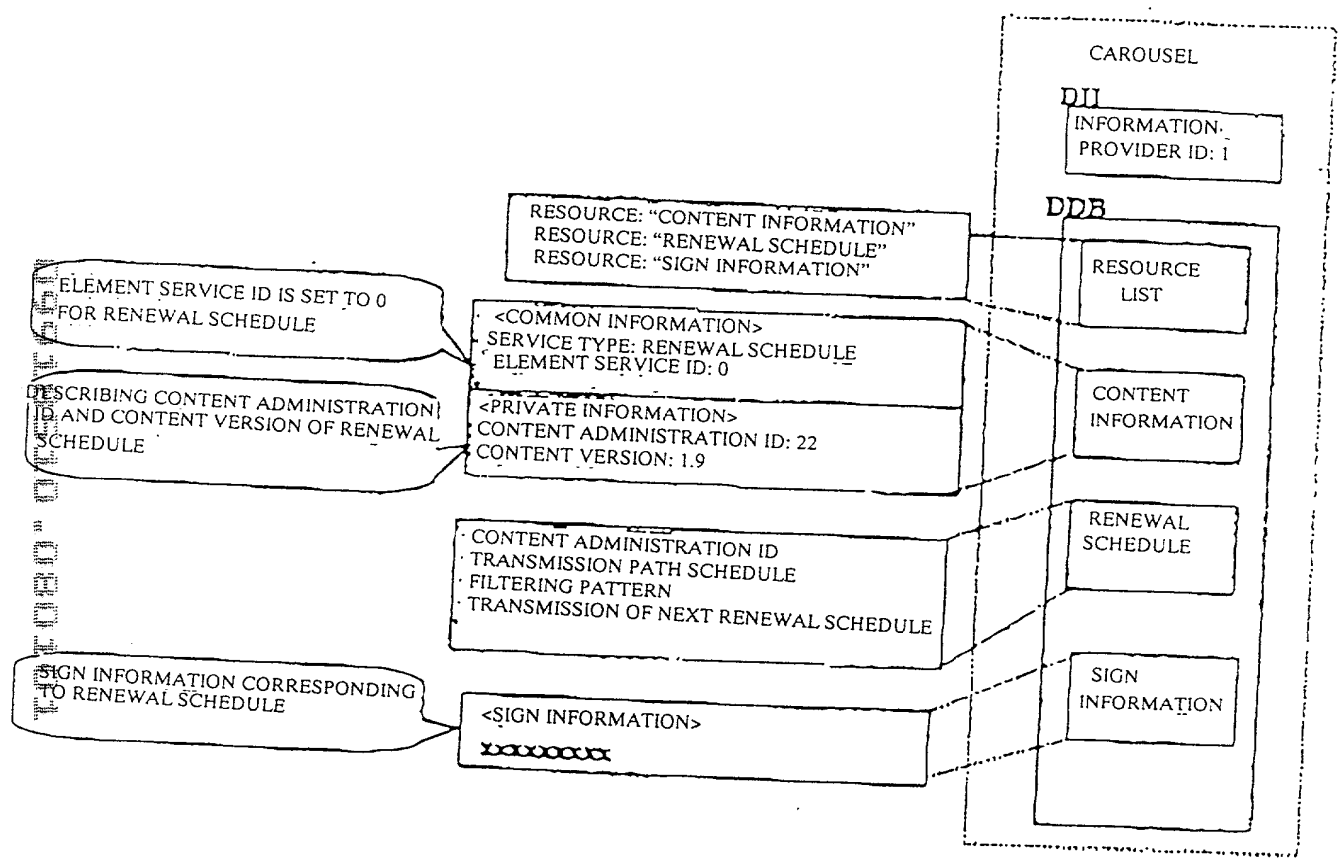


FIG. 11B

<COMMON INFORMATION>
 SERVICE TYPE: 4
 ELEMENT SERVICE ID: 3
 PROVIDER: 34
 COMPONENT CONTENTS: D32, D33, D38, D42, D49
 COMPULSORY CONTENTS: D32, D33, D38
 ACQUIREMENT TIME LIMIT: 2000/02/29 5:30
 ENTIRE VERSION: 2.0

<PRIVATE INFORMATION>
 CONTENT ADM. ID: D32
 CONTENT VERSION: 1.1
 FILTERING PATTERN:
 EXPIRATION:
 first_bml: yes

<PRIVATE INFORMATION>
 CONTENT ADM. ID: D33
 CONTENT VERSION: 1.0
 FILTERING PATTERN:
 EXPIRATION

<PRIVATE INFORMATION>
 CONTENT ADM. ID: D38
 CONTENT VERSION: 1.2
 FILTERING PATTERN:
 EXPIRATION

<PRIVATE INFORMATION>
 CONTENT ADM. ID: D42
 CONTENT VERSION: 1.6
 FILTERING PATTERN:
 EXPIRATION

FIG. 11A

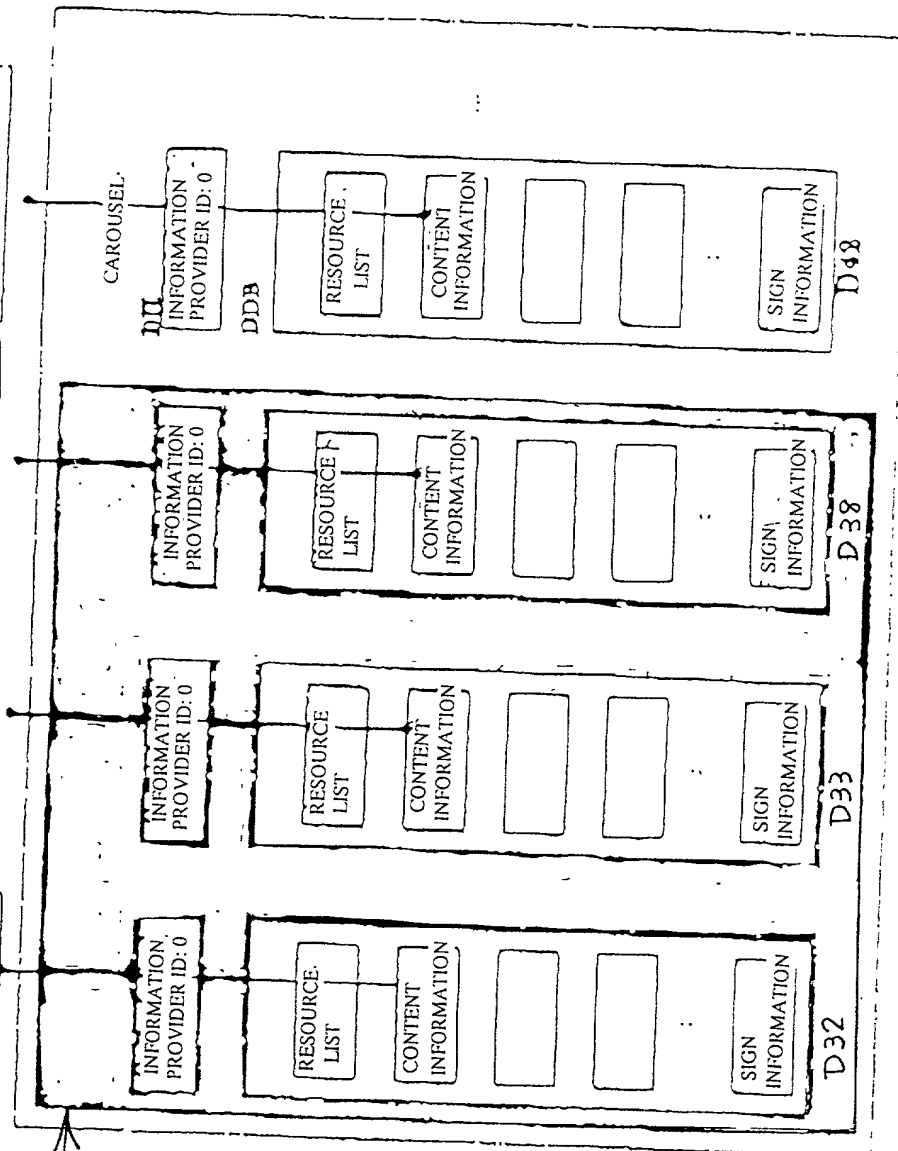
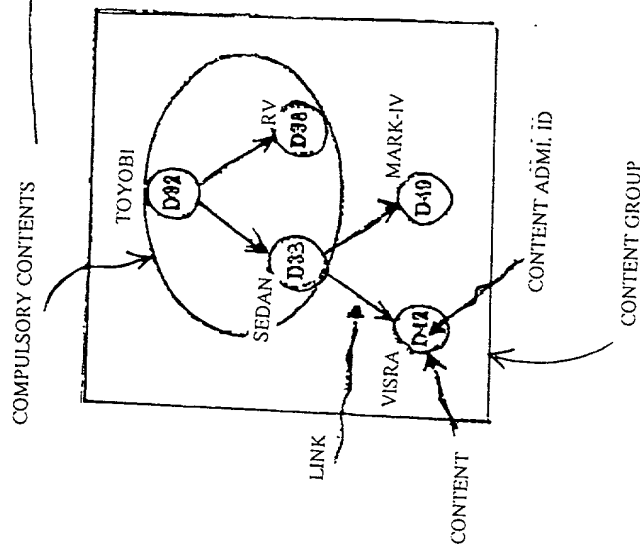


FIG. 16

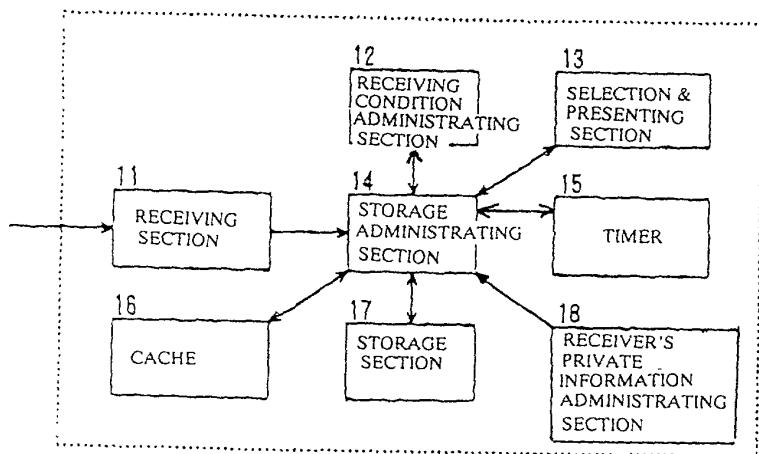


FIG. 13

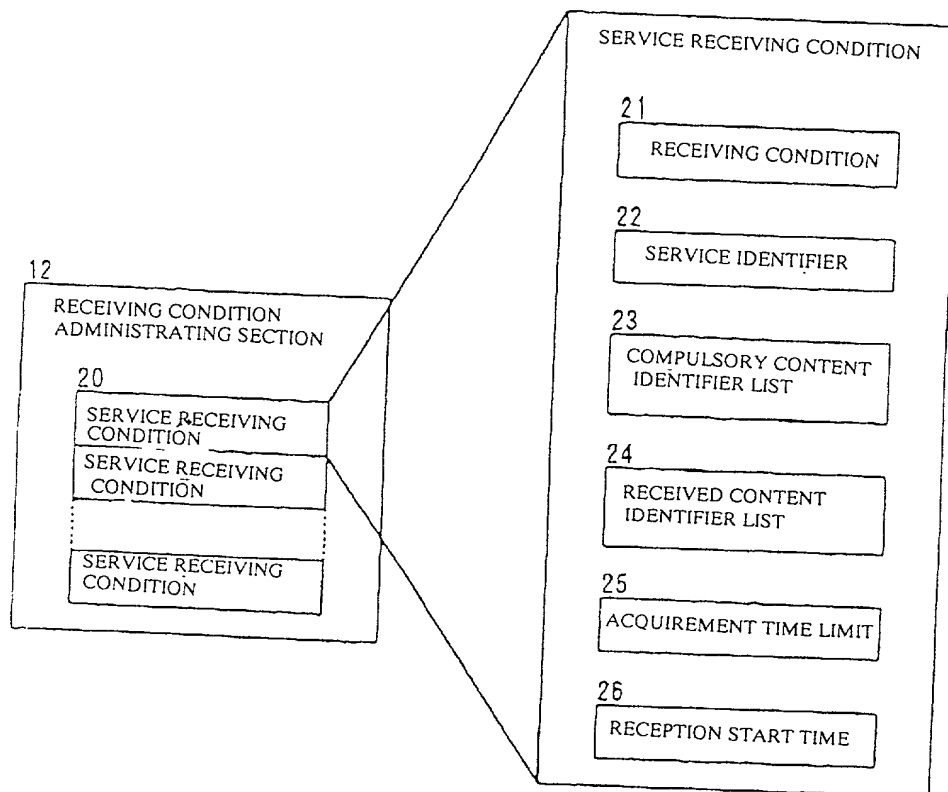


FIG. 14A

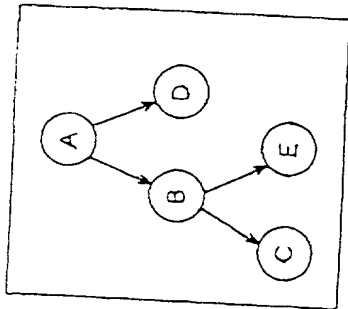


FIG. 14B

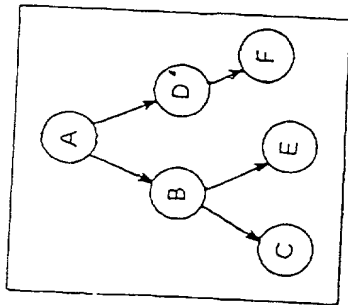


FIG. 14C

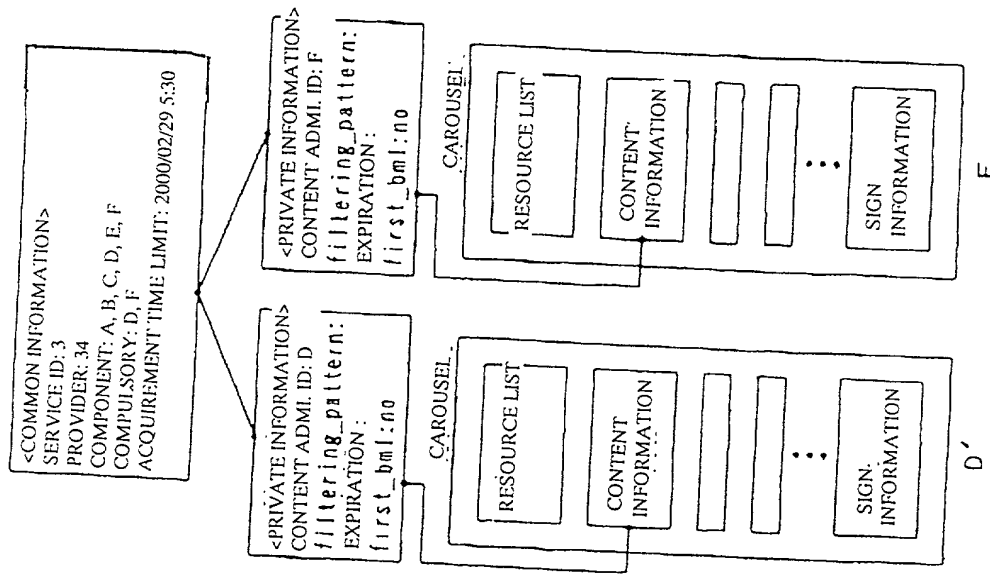


FIG. 15A

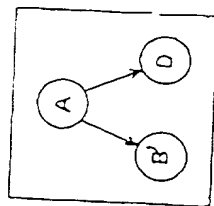
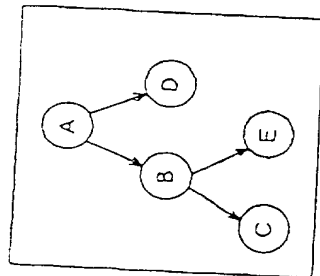


FIG. 15C

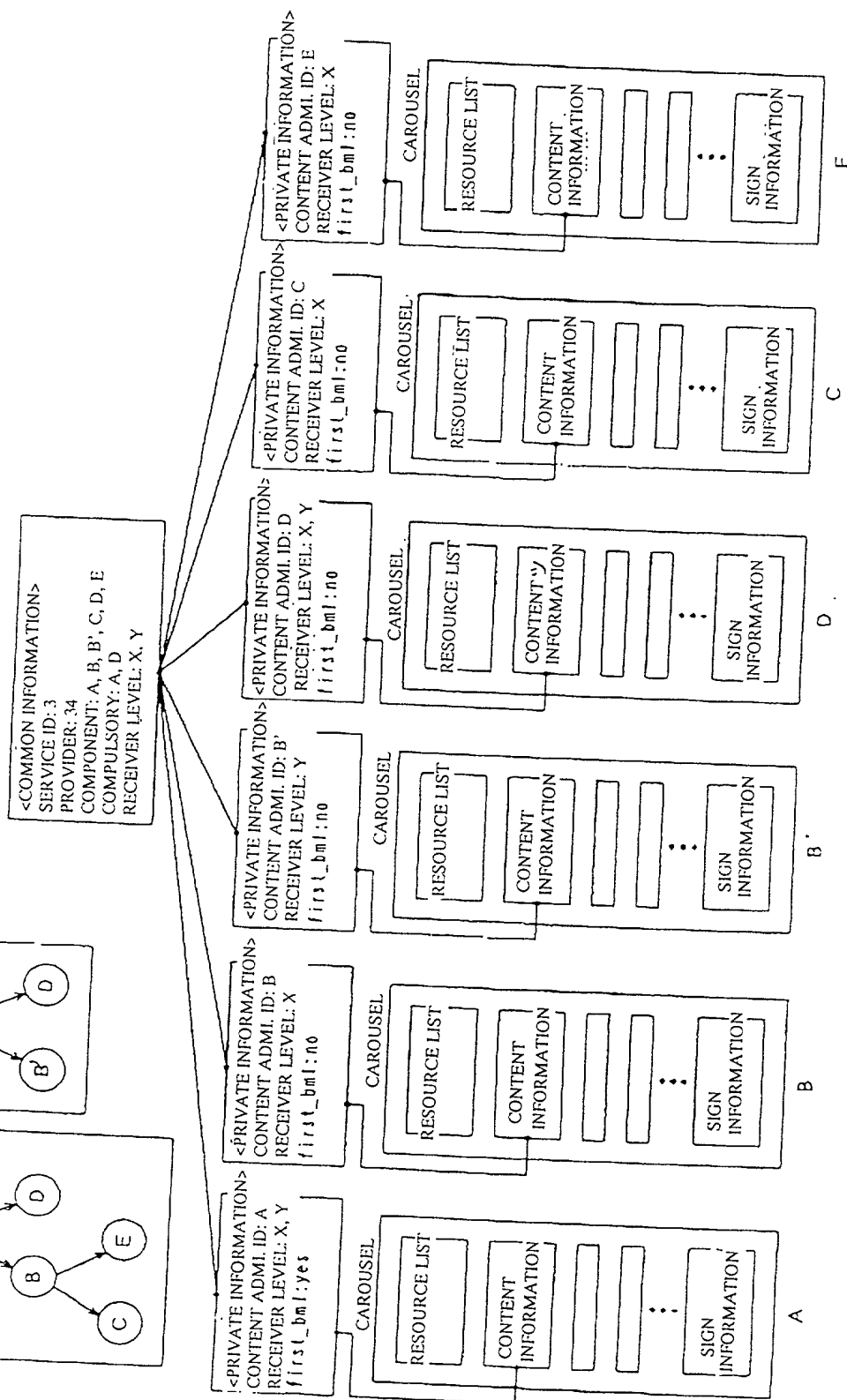


FIG. 17

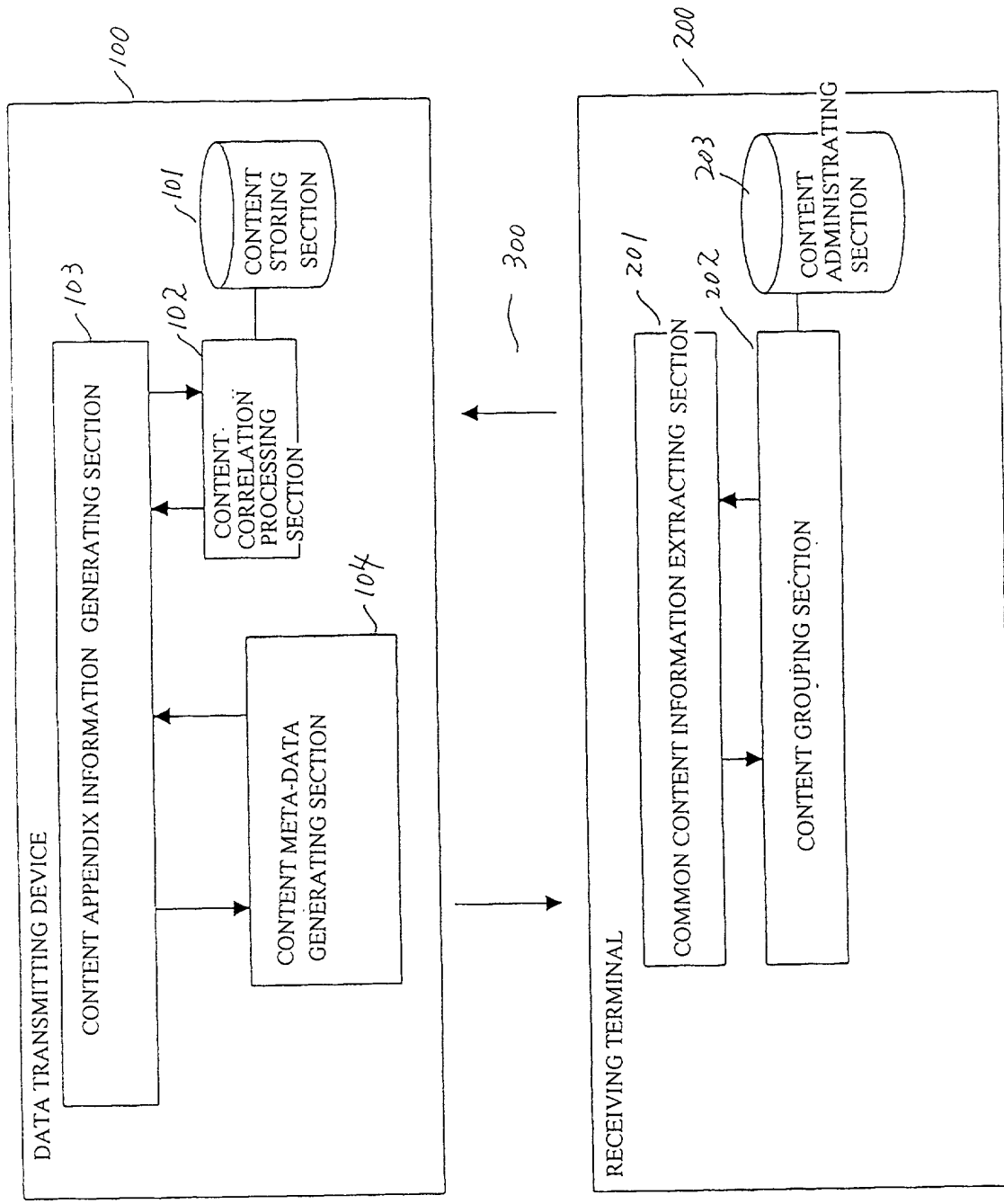


FIG. 18A

DATA TRANSMITTING OPERATION

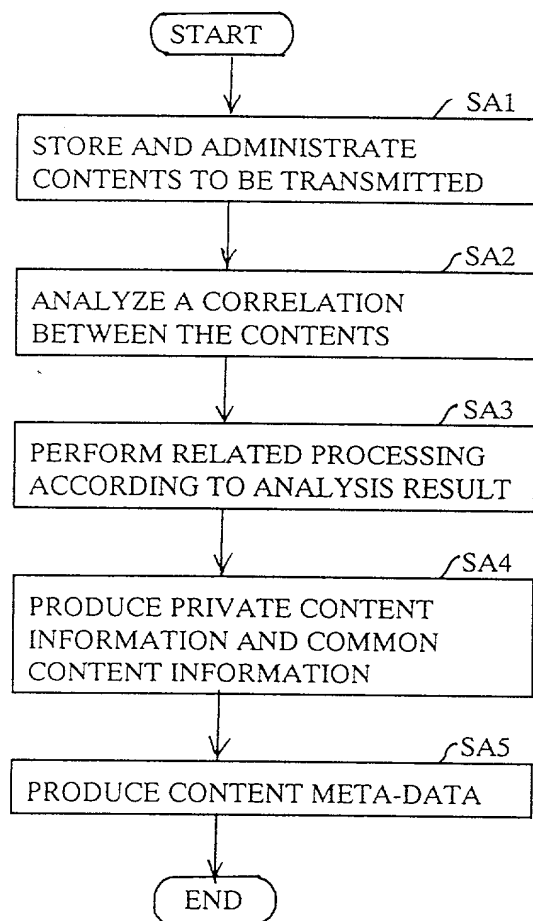


FIG. 18B

DATA RECEIVING OPERATION

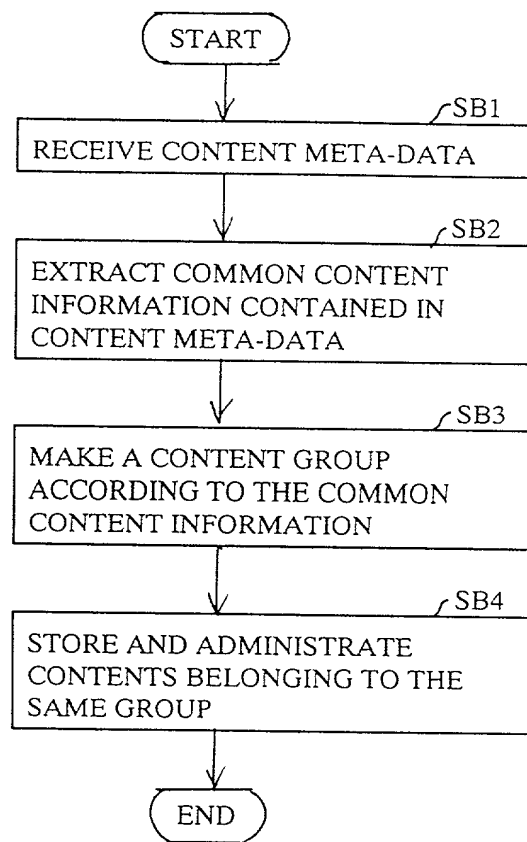


FIG. 19

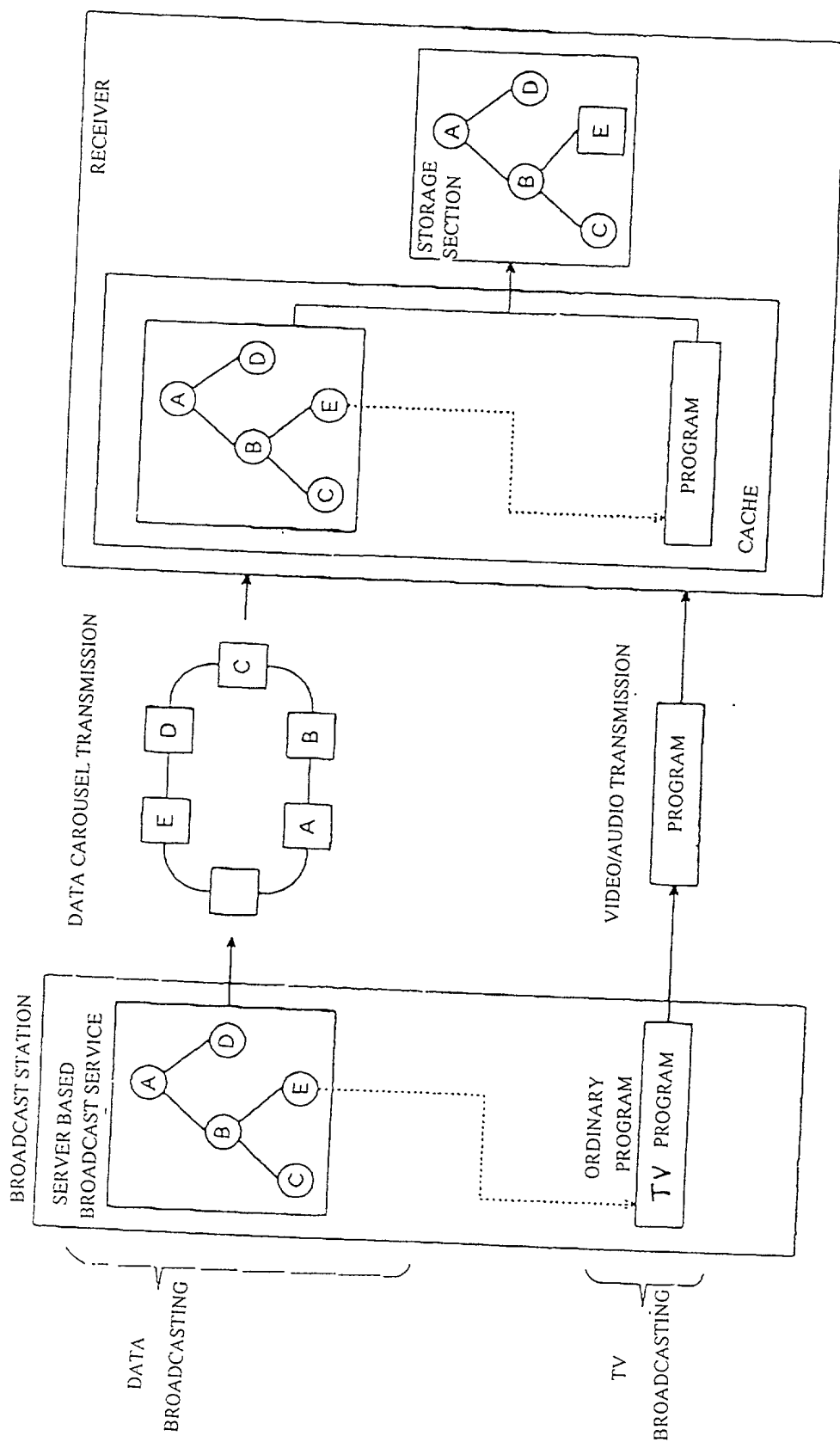


FIG. 20A

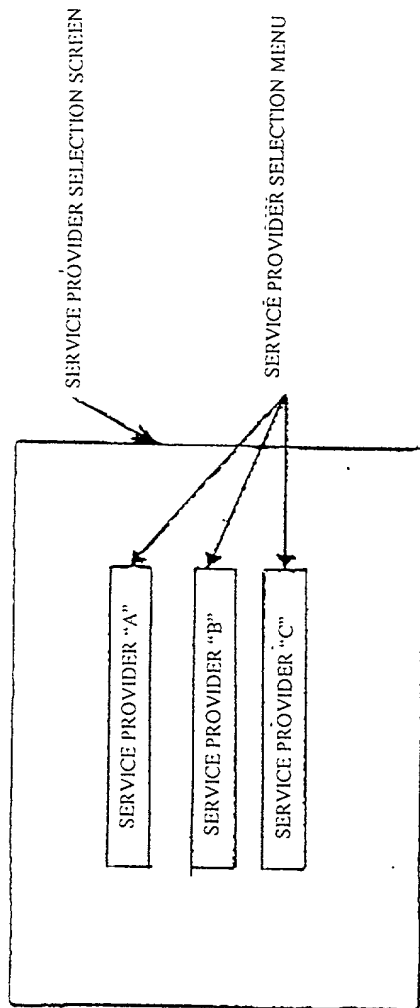
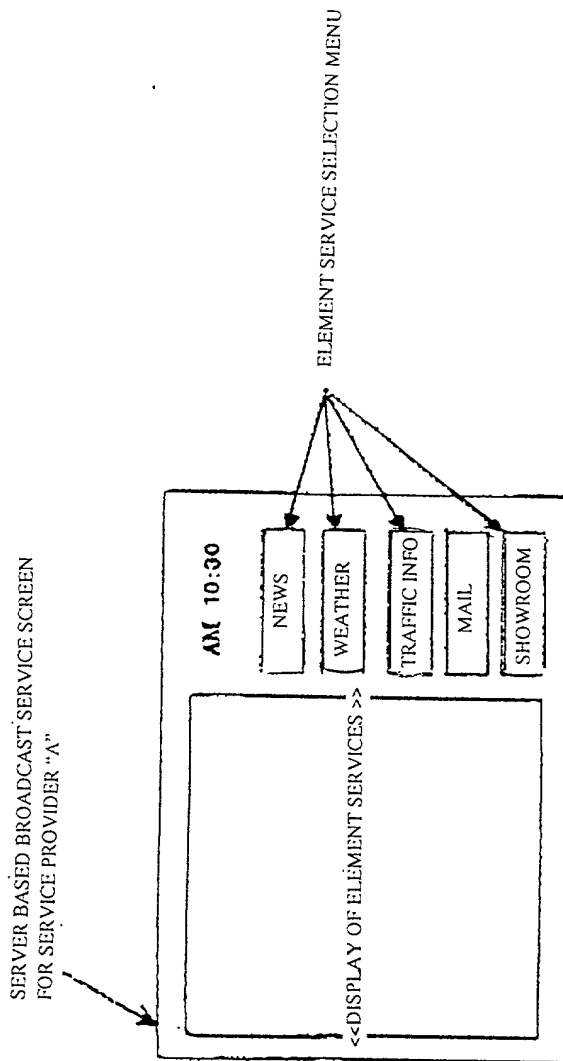


FIG. 20B



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